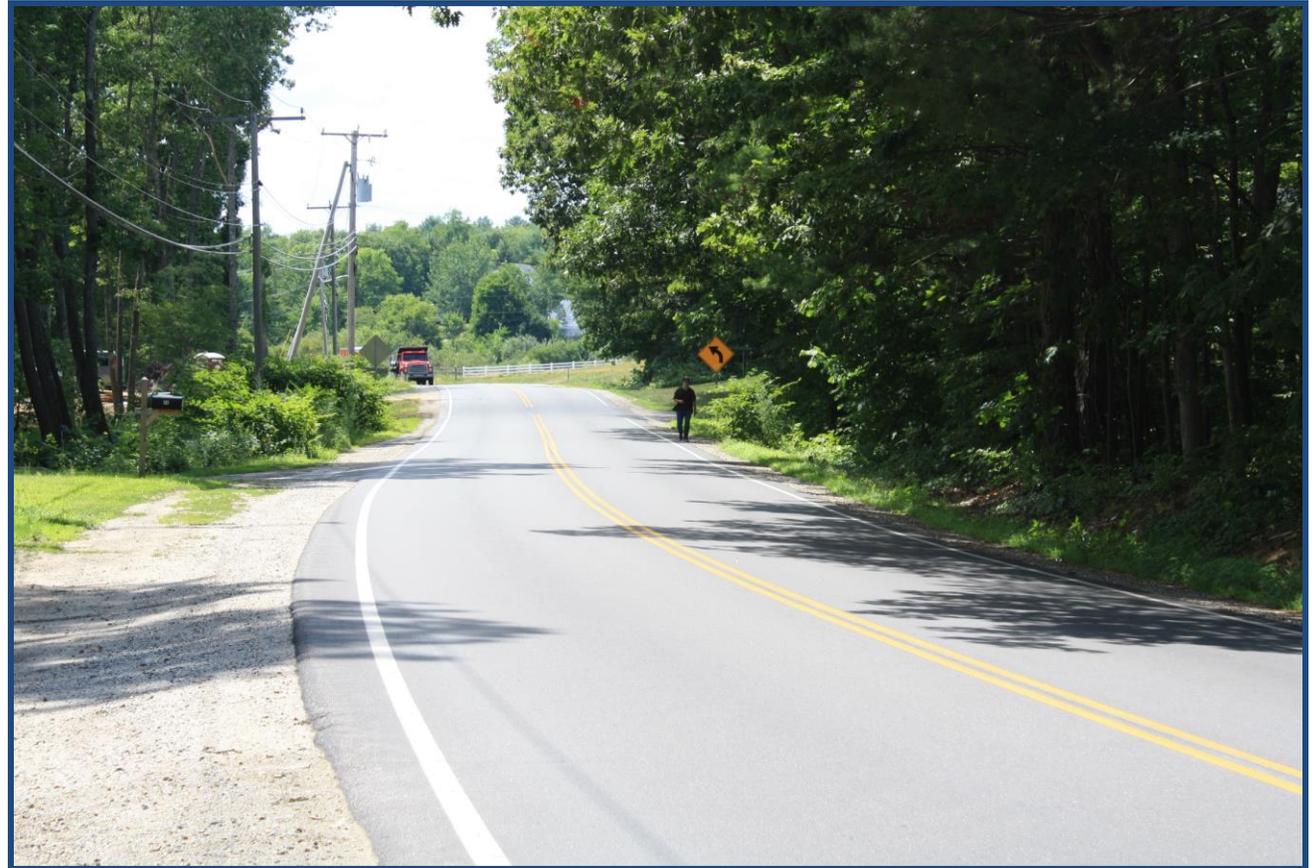


- Purpose and Need
- Project Area/Potential Issues to be Addressed
- Public Info. Meeting Outcomes
- Alternatives Analysis
- Preferred Alternative
- Preliminary Schedule
- Public Comment



*“**Purpose and Need:** The Kingston Road Bicycle and Pedestrian Improvements project will improve safety for pedestrians, bicyclists, and motorists, as well as link residential neighborhoods with recreational opportunities. The project is needed to address the existing and future transportation, safety, and health needs of a growing community of young to elderly residents.”*

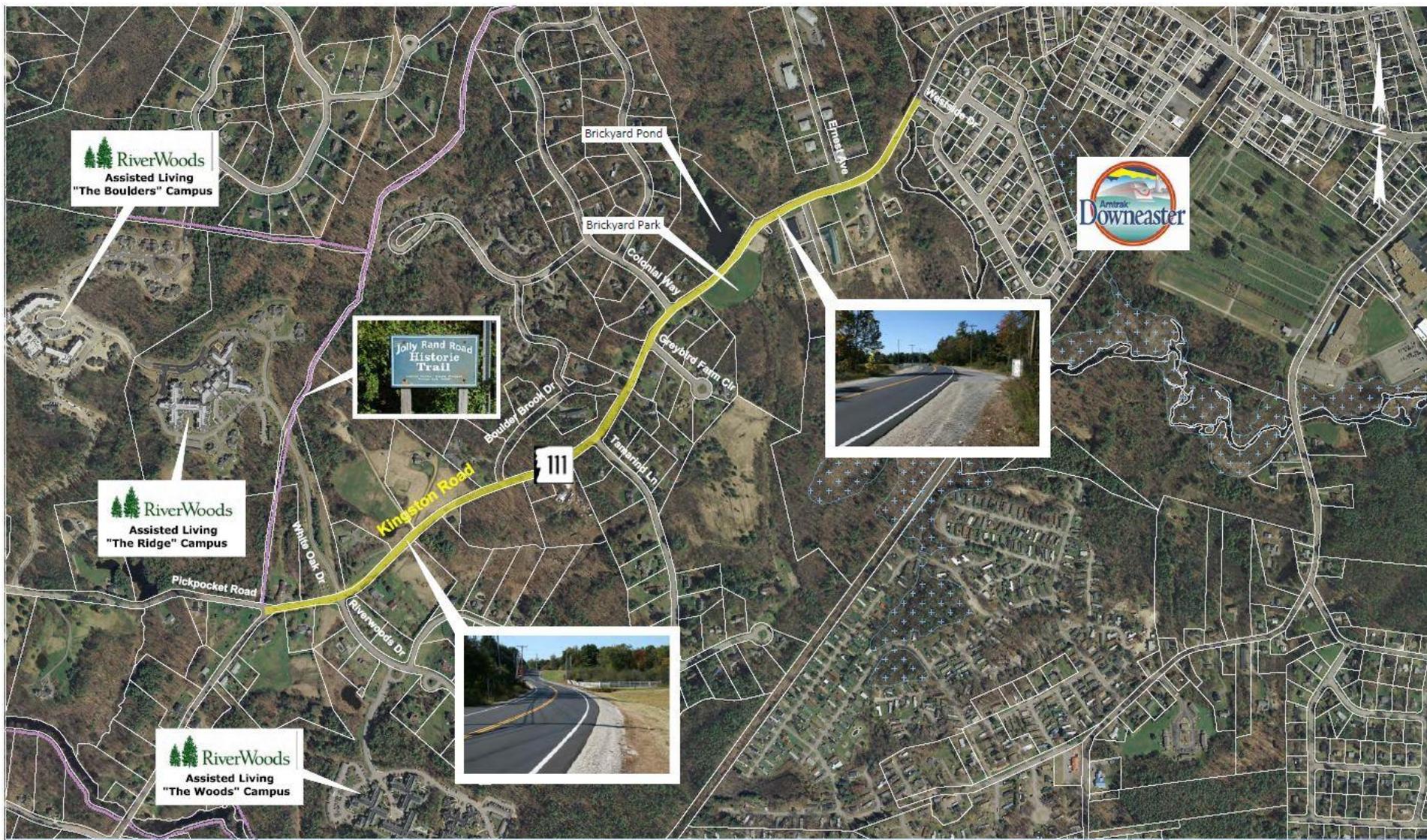
*Source: 2014 Transportation Alternatives Program (TAP) Application for Funding*



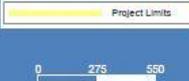
***“Project Description:*** *The project proposes to widen roadway shoulders to 5-foot minimum width on Kingston Road (Route 111), between Pickpocket Road and Westside Drive, a distance of approximately 1.1 miles... Work includes excavation, box widening, paving, and slope construction/grading. Minor adjustments will be made to drainage structures/pipes and to existing utilities, where necessary. Most, if not all, work will fall within existing rights-of-way and previously disturbed areas.”*

*Source: 2014 Transportation Alternatives Program (TAP) Application for Funding*





Kingston Rd. Exeter, NH  
PROJECT LOCATION



**CMA**  
ENGINEERS  
Portsmouth NH  
Manchester NH  
Portland ME  
cmaengineers.com



Figure 1



- *Held August 17, 2016*
- *Presented the broad project outline and objectives*
- *Received many comments from attendees*
- *Some comments/questions included:*
  - *Extent of possible widening?*
  - *Pedestrian safety is primary concern,*
  - *Sight distances may be an issue,*
  - *Concerns about drainage and impacts beyond ROW,*
  - *Interest in sidewalks as well as added roadway shoulder,*
  - *Can project be extended?*
  - *Are there going to be crosswalks?*



## Engineering Study

- ✓ Local Concerns Meeting
- ✓ Alternatives / Conceptual Design
- ✓ Survey
- Preferred Alternative Meeting
- Engineering Study Document
- Draft Environmental Document

## Preliminary Design

## Final Design

## Construction



## Alternatives Considered

- No Build Alternative
- Alternative 1: Shoulder Widening
- Alternative 2: Shoulder Widening and Sidewalk Extension to Brickyard Park
- Alternative 3: Shoulder Widening and Sidewalk Extension to Tamarind Road



## No Build Alternative

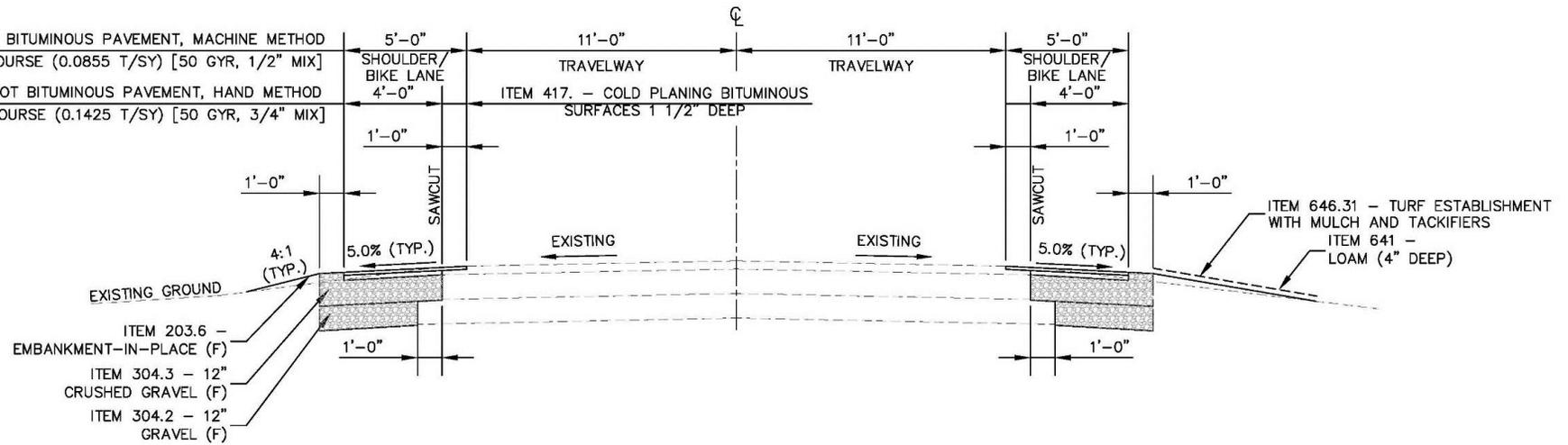
- No improvements to corridor
- Does not improve pedestrian or bicycle safety/facilities
- Does not improve pedestrian/bicycle connectivity between the Town Center and residential or recreational (Brickyard Park) locations.
- Does not align with the Town's Master Plan vision
- Does not suffice purpose and need of this project
- Does not satisfy the desire demonstrated by the public
- Not recommended



## Alternative 1

- Construct 5 ft. shoulders along both sides of the road, where needed
- Provide consistent 11 ft. wide lanes along corridor to reduce speeds
- Improve existing pedestrian facilities impacted by shoulder widening
- Retain on-street parking at Brickyard Park area
- Minimal Right of Way and Wetlands impacts
- Improves pedestrian and bicycle safety/facilities, increases connectivity, aligns with Town's Master Plan vision, and suffices project purpose and need
- Alternative considered



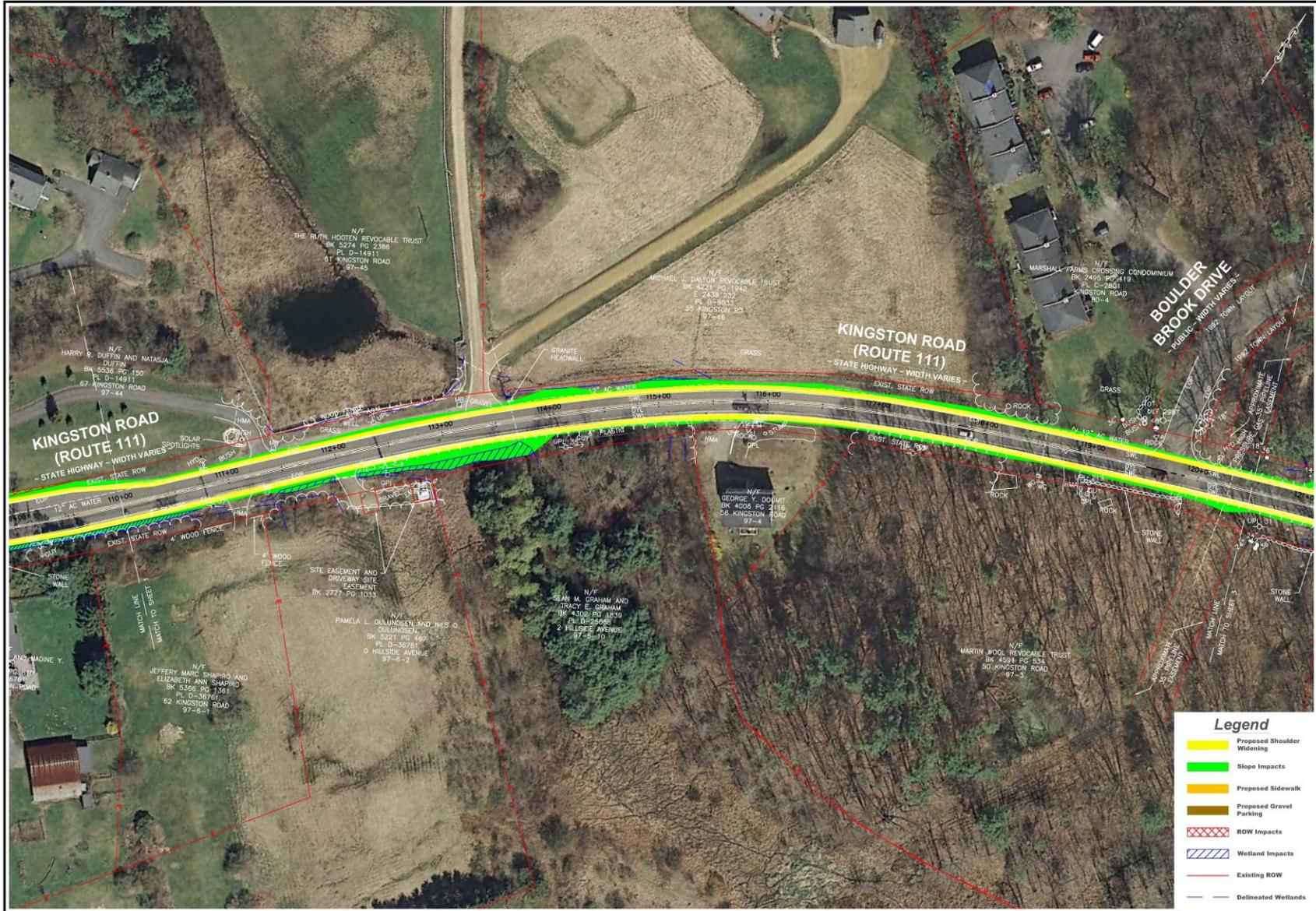


Kingston Road Typical Section Alternative 1

Not to Scale



# Alternative 1



|   |   |                      |               |             |     |                  |               |              |       |            |           |                 |  |
|---|---|----------------------|---------------|-------------|-----|------------------|---------------|--------------|-------|------------|-----------|-----------------|--|
| <p><b>CMA ENGINEERS</b><br/>                 Civil/Environmental/Structural<br/>                 Portsmouth, NH 03801<br/>                 603.431-6888 / 603.827-0700</p>  | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">date: September 2016</td> <td style="width: 25%;">drawn by: JIB</td> <td style="width: 25%;">checked by:</td> <td style="width: 25%;">by:</td> </tr> <tr> <td>project no: 1030</td> <td>drawn by: JIB</td> <td>approved by:</td> <td>date:</td> </tr> <tr> <td>file name:</td> <td>revision:</td> <td colspan="2">scale: 1" = 40'</td> </tr> </table> | date: September 2016 | drawn by: JIB | checked by: | by: | project no: 1030 | drawn by: JIB | approved by: | date: | file name: | revision: | scale: 1" = 40' |  |
| date: September 2016  | drawn by: JIB   | checked by:          | by:           |             |     |                  |               |              |       |            |           |                 |  |
| project no: 1030  | drawn by: JIB   | approved by:         | date:         |             |     |                  |               |              |       |            |           |                 |  |
| file name:  | revision:   | scale: 1" = 40'      |               |             |     |                  |               |              |       |            |           |                 |  |
| <p>Town of Exeter, New Hampshire<br/>                 Public Works Department<br/>                 Exeter 40436, X-A004(406)<br/>                 Kingston Road TAP Project<br/>                 Alternative 1<br/>                 Shoulder Widening</p> |   |                      |               |             |     |                  |               |              |       |            |           |                 |  |
| <p>drawing no:<br/> <b>ALT1-2</b></p>   |   |                      |               |             |     |                  |               |              |       |            |           |                 |  |
| <p>sheet: 2 of X</p>  |   |                      |               |             |     |                  |               |              |       |            |           |                 |  |

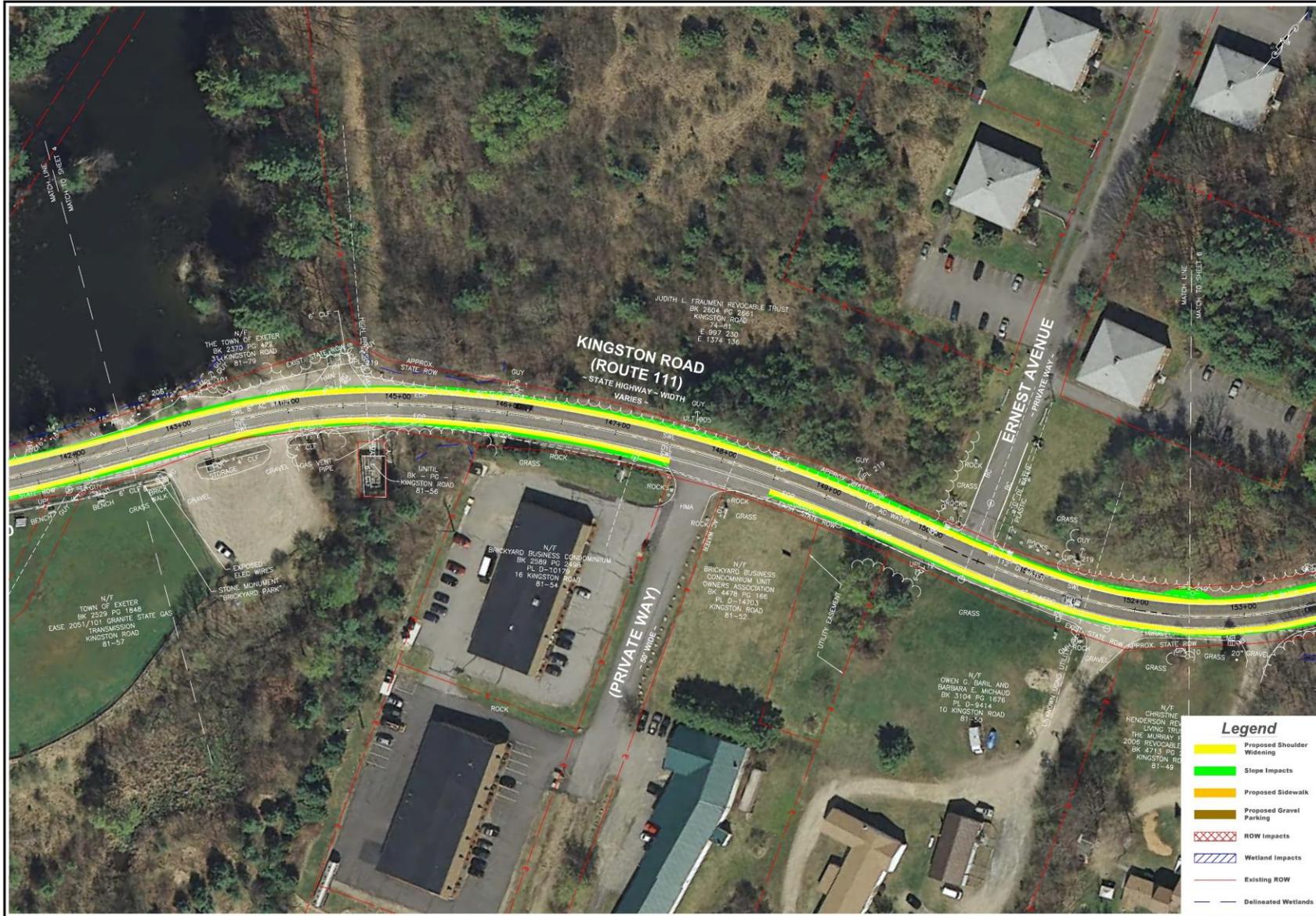




# Alternative 1



# Alternative 1



|   |  |
|---|--|
| <b>CMA ENGINEERS</b><br>CIVIL/ENVIRONMENTAL/STRUCTURAL<br>Portsmouth, NH Manchester, NH Portland, ME<br>603/431-6186 603/827-0760 603/541-4323<br>c m a e n g i n e e r s . c o m |  |
| Date: September 2016<br>Project No: 1030<br>File Name: Exeter 40436<br>Project Name: Kingston Road TAP Project  | Drawn by: JJB<br>Check by: JJB<br>Approved by: |
| Town of Exeter, New Hampshire<br>Public Works Department<br>Exeter 40436, X-A004(406)<br>Kingston Road TAP Project<br>Alternative 1<br>Shoulder Widening                          | Drawing No:<br><b>ALT1-5</b><br>Sheet: 5 of X  |



# Alternative 1



**Legend**

- Proposed Shoulder Widening
- Slope Impacts
- Proposed Sidewalk
- Proposed Gravel Parking
- ROW Impacts
- Wetland Impacts
- Existing ROW
- Delineated Wetlands

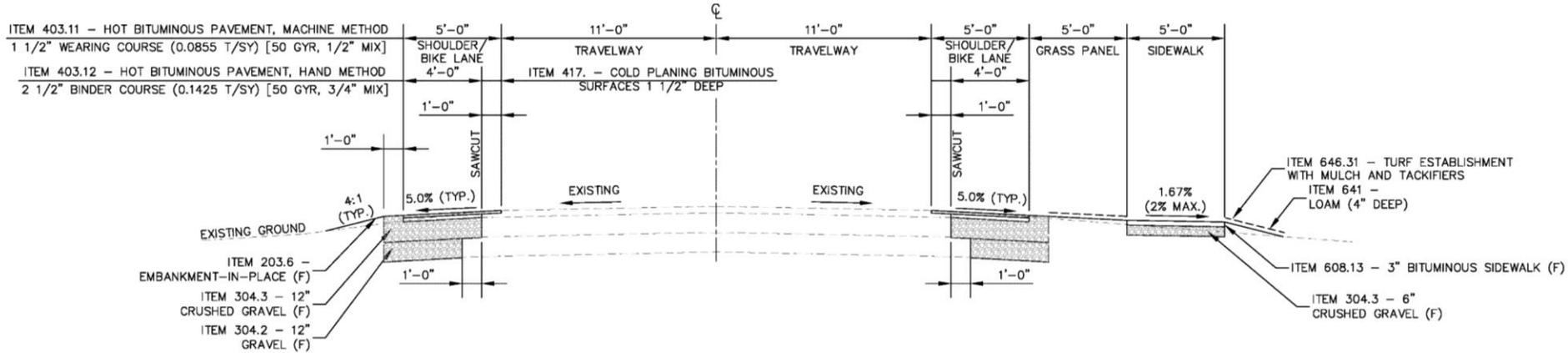
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|---|--|
| <b>CMA ENGINEERS</b><br>CIVIL/ENVIRONMENTAL/STRUCTURAL<br>Portsmouth, NH Manchester, NH Portland, ME<br>603/431-6186 603/827-0760 607/541-4323<br>c m a e n g i n e e r s . c o m |  |
| date: September 2016<br>project no: 1030<br>file name: Exeter 40436 X-A004(406) Kingston Road TAP Project Alternative 1 Shoulder Widening   | drawn by: JJB<br>checked by: JJB<br>approved by: |
| drawing no: <b>ALT1-6</b><br>sheet: 6 of 8  |  |



## Alternative 2

- Includes all Alternative 1 improvements
- Construct 5 ft. offset sidewalk from the Little River Bridge to Brickyard Park
- Provides higher level of improvement/safety for pedestrians
- Does not provide bicycle improvements over Alternative 1
- Retains on-street parking at Brickyard Park area
- Increased Right of Way and Wetland impacts
- Improves pedestrian safety/facilities, increases connectivity to recreational facility, aligns with Town's Master Plan vision, and suffices project purpose and need
- Alternative considered



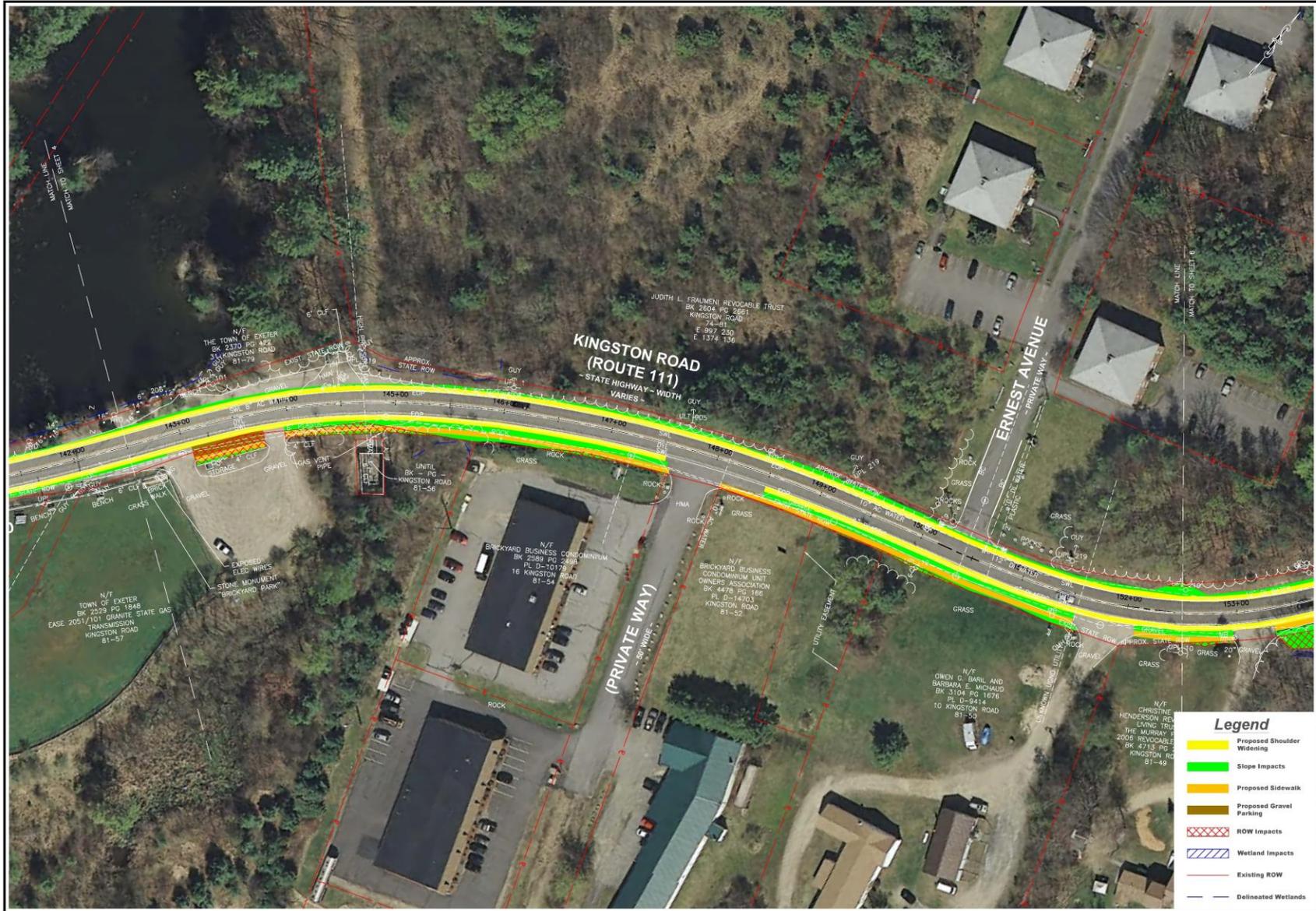


**Kingston Road Typical Section Alternatives 2 and 3**

Not to Scale



# Alternative 2



**Legend**

- Proposed Shoulder Widening
- Slope Impacts
- Proposed Sidewalk
- Proposed Gravel Parking
- ROW Impacts
- Wetland Impacts
- Existing ROW
- Delineated Wetlands

|   |  |   |  |  |
|---|--|---|--|--|
|   |  |   |  |  |
| <b>CMA ENGINEERS</b>  | Civil/Environmental/Structural                   |   |  |  |
| Portsmouth, NH Manchester, NH Portland, ME<br>603/431-6186 803/827-0700 7541-4325<br>c m a e n g i n e e r s . c o m  |  |   |  |  |
| Date: September 2016<br>Project No: 1030<br>Job Name: Exeter 40436<br>Job No: 1030  | Drawn by: JJB<br>Checked by: JJB<br>Approved by: | Scale: 1" = 20'<br>North Arrow                |  |  |
| Town of Exeter, New Hampshire<br>Public Works Department<br>Exeter 40436, X-A004(406)<br>Kingston Road TAP Project<br>Alternative 2<br>Shoulder Widening & Sidewalk |  | Drawing No:<br><b>ALT2-5</b><br>Sheet: 5 of 5 |  |  |



# Alternative 2



**Legend**

- Proposed Shoulder Widening
- Slope Impacts
- Proposed Sidewalk
- Proposed Gravel Parking
- ROW Impacts
- Wetland Impacts
- Existing ROW
- Delineated Wetlands

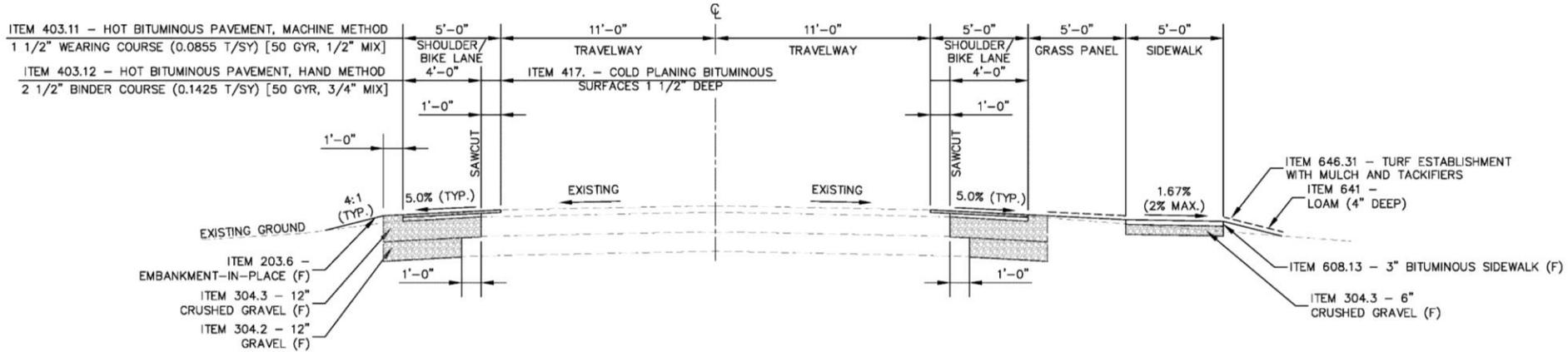
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|---|---------------------------|-----------------------------------|-------------------------|-----------------|
| <b>DATE</b><br>September 2016   | <b>DESIGNED BY</b><br>JJB | <b>CHECKED BY</b><br>JJB          | <b>DATE</b><br>09/01/16 | <b>REVISION</b> |
| <b>PROJECT NO.</b><br>1030  | <b>SCALE</b><br>AS SHOWN  | <b>APPROVED BY</b><br>[Signature] | <b>DATE</b><br>09/01/16 |                 |
| <p><b>Town of Exeter, New Hampshire</b><br/>                 Public Works Department<br/>                 Exeter 40436, X-A004(406)<br/>                 Kingston Road TAP Project<br/>                 Alternative 2<br/>                 Shoulder Widening &amp; Sidewalk</p> |                           |                                   |                         |                 |
| <p><b>Drawing No.</b><br/>ALT2-6</p> <p>Sheet: 6 of 8</p>   |                           |                                   |                         |                 |
| <p><b>CMA ENGINEERS</b><br/>                 CIVIL/ENVIRONMENTAL/STRUCTURAL<br/>                 Portsmouth, NH Manchester, NH Portland, ME<br/>                 603/431-6985/603/827-0760/7541-4323<br/>                 c m a e n g i n e e r s . c o m</p>                   |                           |                                   |                         |                 |



## Alternative 3

- Includes all Alternative 1 & Alternative 2 improvements
- Construct 5 ft. offset sidewalk from Brickyard Park to Tamarind Lane, removing existing offset sidewalk, connecting to existing sidewalk facilities on Greybird Farm Circle and Tamarind Lane
- Provides higher level of improvement/safety for pedestrians
- Does not provide bicycle improvements over Alternative 1 & Alternative 2
- Retains on-street parking at Brickyard Park area
- Increased Right of Way and Wetland impacts
- Improves pedestrian safety/facilities, increases connectivity to recreational facility & residential area, aligns with Town's Master Plan vision, and suffices project purpose and need
- Alternative considered



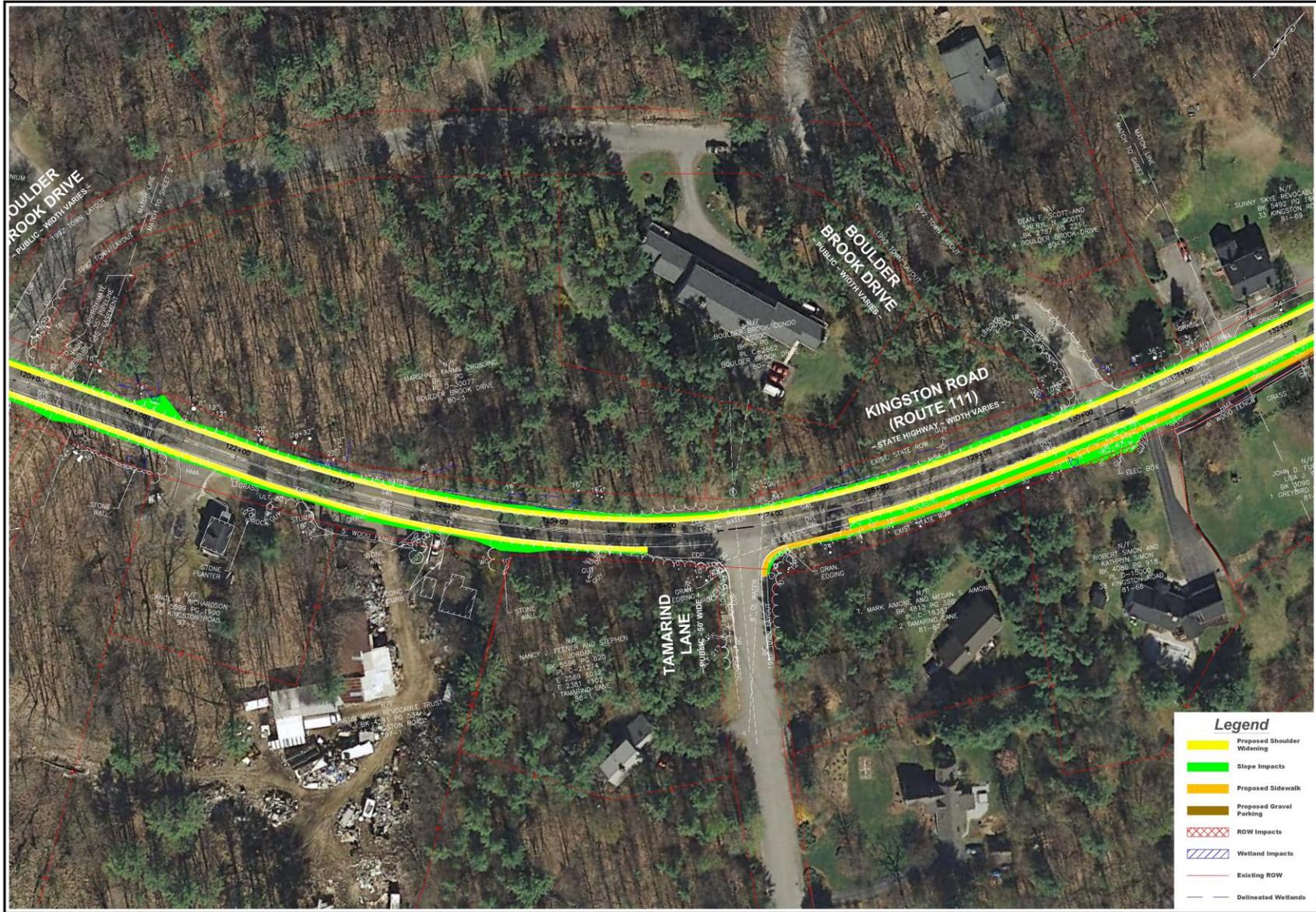


**Kingston Road Typical Section Alternatives 2 and 3**

Not to Scale



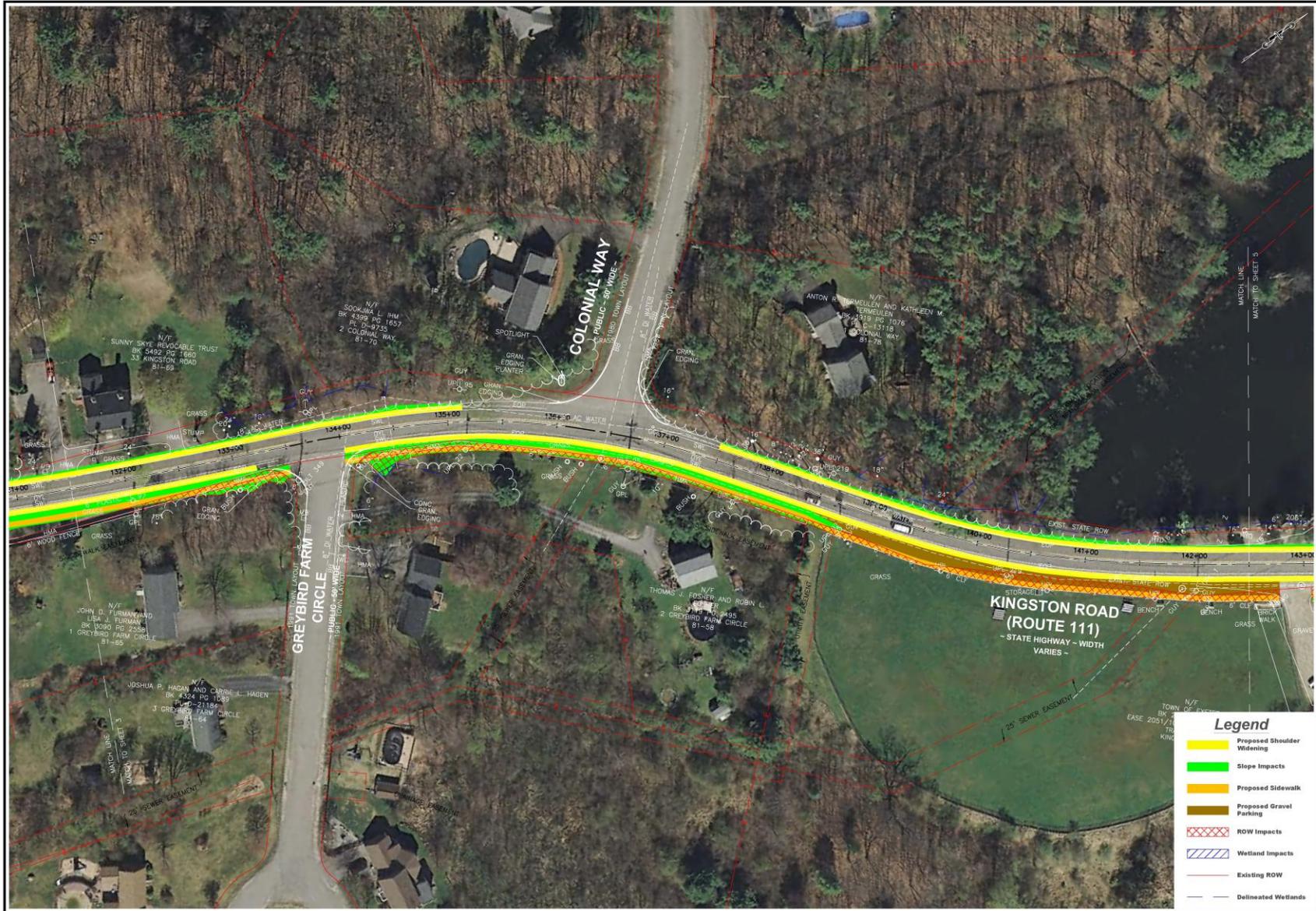
# Alternative 3



|  |  |
|--|--|
| <b>CMA ENGINEERS</b><br>CIVIL/TRANSPORTATION/STRUCTURAL<br>Portsmouth, NH<br>603/431-6888<br>603/431-6888/603/627-0708/603/541-4422<br>c m a e n g i n e e r s . c o m |  |
| Date: September 2016<br>Project No: 1030<br>File Name: 1030.dwg  | Drawn by: JUB<br>Checked by: JUB<br>Approved by: |
| Town of Exeter, New Hampshire<br>Public Works Department<br>Exeter 40436, X-A004(406)<br>Kingston Road TAP Project<br>Alternative 3<br>Shoulder Widening & Sidewalk    | Drawing No:<br><b>ALT3-3</b><br>Sheet: 3 of 3    |



# Alternative 3



**Legend**

- Proposed Shoulder Widening
- Slope Impacts
- Proposed Sidewalk
- Proposed Gravel Parking
- ROW Impacts
- Wetland Impacts
- Existing ROW
- Delineated Wetlands

|   |  |                  |               |          |
|---|--|------------------|---------------|----------|
|   |  |                  |               |          |
| <b>CMA</b><br>ENGINEERS   | Civil/Environmental/Structural<br>Per Hampshire, NH Register, NH Portland, ME<br>603/431-6888/603/627-0760/7/541-422 |                  |               |          |
| date: September 2016  | drawn by: JUB  | project no: 1030 | approved by:  | revision |
| client: Town of Exeter, New Hampshire<br>Public Works Department<br>Exeter 40436, X-A004(406)<br>Kingston Road TAP Project<br>Alternative 3<br>Shoulder Widening & Sidewalk | file name: 1030.dwg  | revision: 1      | sheet: 4 of 4 | no       |
| drawing no: ALT3-4  |  |                  |               |          |



## Alternative 1 Selected as Preferred Alternative

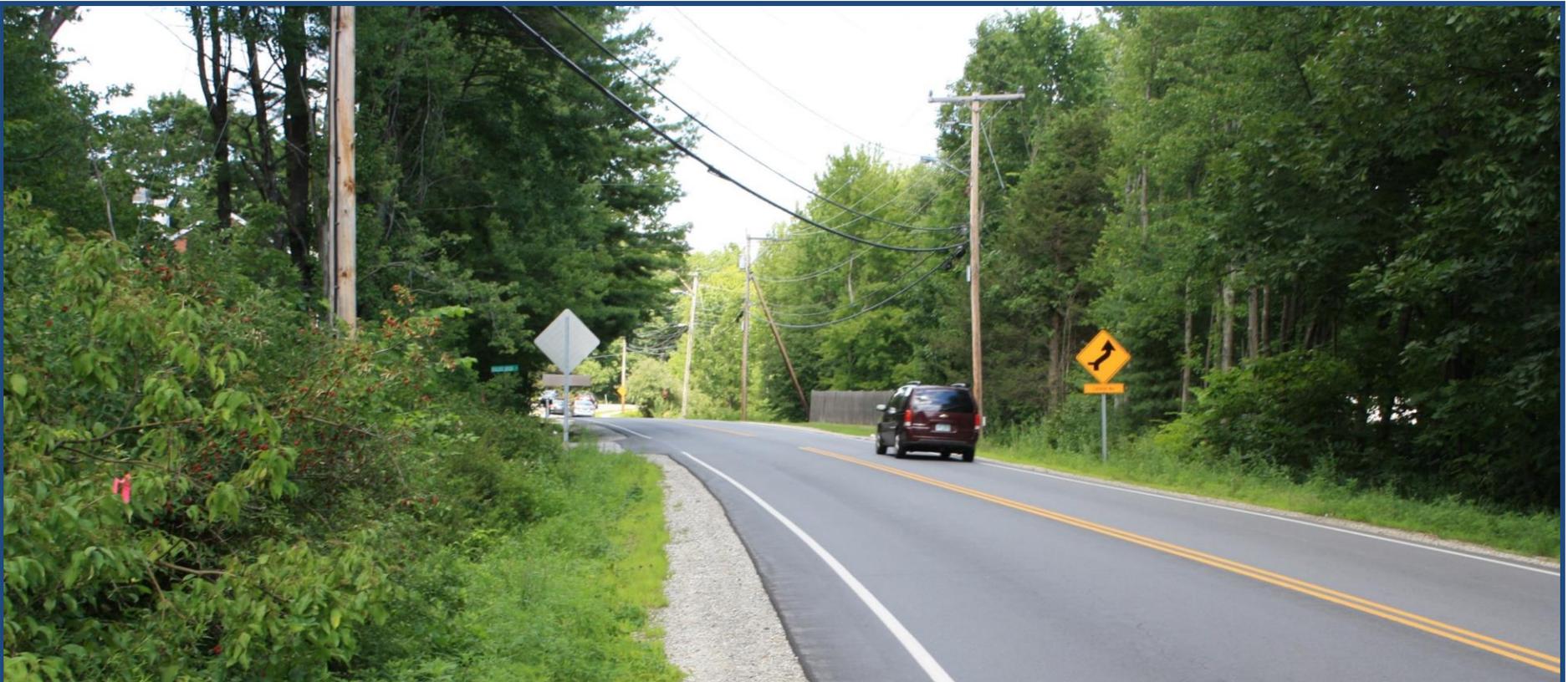
- Provides biggest improvement for pedestrians and bicyclist
- Aligns best with Town's Master Plan vision, project purpose and need, and what was proposed in the TAP application
- Connects recreational and residential facilities to existing pedestrian/bicycle infrastructure
- Has the least amount of Right of Way and Wetlands impacts
- Aligns best with budget



# Preliminary Schedule

- ▶ Local Concerns Meeting..... August 17, 2016
- ▶ Preferred Alternative Meeting..... September 28, 2016
- ▶ Engineering Study Complete ..... October, 2016
- ▶ Preliminary Design Complete..... January, 2017
- ▶ Final Design Complete..... June, 2017
- ▶ Construction..... Fall 2017





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[jbeaudet@cmaengineers.com](mailto:jbeaudet@cmaengineers.com)

[wstraub@cmaengineers.com](mailto:wstraub@cmaengineers.com)

